

This machine is a modified version of the IT-42 with internal integration of a Mitsubishi 6 axis articulated robot. This requires no additional floor space, and is positioned so it will not hinder the machine operator while setting the machine, or operating the Mitsubishi M70 control system.

i-42 Robo

This 4 axis lathe with C-axis and live tooling provides the added advantage of robotic loading for unmanned chucking operations



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INTELLIGENT ROBOT

CNC turning and milling complex lathe | i-42 Robo

Written by Administrator

Thursday, 17 April 2014 07:07 - Last Updated Tuesday, 27 May 2014 03:55

Complimenting the standard IT-42 lathe, is a fully integrated high speed, high precision 6 axis robot.

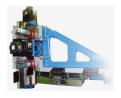
This intelligent robot has a total of 88 programs, and can easily maneuver around tooling and other obstacles within the work area.

It can handle work pieces of up to 6kg, and is ideal for billets, castings and forgings.



Axial view

i-42 Robo



LINEAR GUIDEWAYS

The machine is equipped with high precision, HIWIN linear guideways. The use of 35mm rails throughout the machine increases stability and accuracy, and allows heavier cuts to be achieved.



SPINDLE

The cartridge type spindle runs on P4 high precision bearings giving high radial and axial stability, allowing for heavy duty cutting.

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The spindle is assembled and tested in a temperature controlled clean room, sealed, and requires no maintenance. The spindle housing is large, and symmetrically ribbed to allow heat dissipation and thermal stability.



Workpiece

i-42 Robo

Specification

Mitsubishi Controller M70

Spindle Max. Turning Len2010.0 mm X/Z axis spindle AC Servo 1.0kw

Spindle Collet Chuck Typk(K5-173E42B/KK6-185E60B(option)

Spindle Nose ISO(DIN) A2-5/ A2-6

Spindle Bore 44.0/62.0mm(option) Motorized Tool AC Servo 1.0kw/1.5kw (o

Spindle Speed Range 3000 rpm/4000 rpm(4000 rpm/4000 rpm/4

C Axis Positioning Accuracy 0.001° Max. Pressure

Travel & Feed X/Y/Zaxis Travel 150.0/415.0/230.0mm Tank Capacity

Lubrication Lubricant Motor 25W

A.T.C System OD Tools Main Spindle 6 Max. Pressure

ID Tools Main Spindle 4 Tank Capacity 2 Liter

Tool Shank Size 20.0mm

Boring Bar (main) ER-20/20.0mm

Motorized Tool Index Time 0.3sec(one)/0.6(full)

Number of motorized tools (3 Axial, 3 Radial) Coolant System Coolant Motor Type

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Speed4000rpm(Max.)Coolant Tank Capacity160LSizeER-20Machine SizeLength/Width/HeightMax.Drilling Dia.12.0 mmWeight2750kg

Max. Tapping capacity M10 X P1.25

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